Format No: CP/TF/01

548

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-01-30-07** **Date: 01/02/2018**

**Customer** : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

**Address** : Shettyhalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to CC roads 16th, 17th, 18th cross roads at Ravindra Nagara in Ward No. 13 in Shettyhalli Sub Division.

**Agency** : Sri.K.Jagadish, #3424, 6th cross, Gayathri Nagara, Bengaluru - 560021

**Customer's Reference** : EE/DD/WO/191/17-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 30-01-2018

**Sample ID No** : 2018-01-30-07 /07

**Customer ID** : CC Pavement

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M30 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 01/02/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CC Pavement | M30 | 25/01/2018 | 01/02/2018 | 150.08 X 149.08 X 150.59 | 22374 | 8.333 | 578.9 | 25.9 | 25.7 |
| 2 | CC Pavement | M30 | 25/01/2018 | 01/02/2018 | 150.06 X 150.46 X 150.47 | 22579 | 7.971 | 604.0 | 26.8 | |
| 3 | CC Pavement | M30 | 25/01/2018 | 01/02/2018 | 150.79 X 150.23 X 149.91 | 22653 | 8.362 | 552.2 | 24.4 | |

**Note:**

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**DR KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

CIVIL PRO BANGALORE Sig..... Date.....


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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-01-31-11** **Date: 05/02/2018** |
| **Customer** | : | Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Shettyhalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to CC roads 16th, 17th, 18th cross roads at Ravindra Nagara in Ward No. 13 in Shettyhalli Sub Division. |
| **Agency** | : | Sri.K.Jagadish, #3424, 6th cross, Gayathri Nagara, Bengaluru - 560021 |
| **Customer's Reference** | : | EE/DD/WO/191/17-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 31-01-2018 |
| **Sample ID No** | : | 2018-01-31-11 /01 |
| **Customer ID** | : | CC Pavement |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M30 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 05/02/2018 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CC Pavement | M30 | 29/01/2018 | 05/02/2018 | 150.70 X 150.45 X 150.93 | 22673 | 8.473 | 567.6 | 25.0 | 25.4 |
| 2 | CC Pavement | M30 | 29/01/2018 | 05/02/2018 | 150.43 X 149.80 X 150.00 | 22535 | 8.593 | 600.2 | 26.6 | |
| 3 | CC Pavement | M30 | 29/01/2018 | 05/02/2018 | 149.08 X 149.62 X 150.94 | 22306 | 7.981 | 550.1 | 24.7 | |

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CIVIL Pro BANGALORE Sig..... Date.....

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**


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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-01-31-11** **Date: 05/02/2018**

**Customer** : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

**Address** : Shettyhalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to CC roads 16th, 17th, 18th cross roads at Ravindra Nagara in Ward No. 13 in Shettyhalli Sub Division.

**Agency** : Sri.K.Jagadish, #3424, 6th cross, Gayathri Nagara, Bengaluru - 560021

**Customer's Reference** : EE/DD/WO/191/17-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 31-01-2018

**Sample ID No** : 2018-01-31-11 /03

**Customer ID** : CC Pavement

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M30 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 05/02/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CC Pavement | M30 | 29/01/2018 | 05/02/2018 | 150.05 X 149.23 X 150.63 | 22392 | 8.378 | 580.1 | 25.9 | 25.6 |
| 2 | CC Pavement | M30 | 29/01/2018 | 05/02/2018 | 149.44 X 151.69 X 151.48 | 22669 | 8.455 | 601.0 | 26.5 | |
| 3 | CC Pavement | M30 | 29/01/2018 | 05/02/2018 | 150.30 X 151.25 X 150.68 | 22734 | 8.019 | 554.4 | 24.4 | |

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**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-01-31-11** **Date: 05/02/2018**

**Customer** : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

**Address** : Shettyhalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to CC roads 16th, 17th, 18th cross roads at Ravindra Nagara in Ward No. 13 in Shettyhalli Sub Division.

**Agency** : Sri.K.Jagadish, #3424, 6th cross, Gayathri Nagara, Bengaluru - 560021

**Customer's Reference** : EE/DD/WO/191/17-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 31-01-2018

**Sample ID No** : 2018-01-31-11 /05

**Customer ID** : CC Pavement

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M30 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 05/02/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CC Pavement | M30 | 29/01/2018 | 05/02/2018 | 150.87 X 150.41 X 150.91 | 22692 | 8.334 | 575.3 | 25.4 | 25.3 |
| 2 | CC Pavement | M30 | 29/01/2018 | 05/02/2018 | 151.99 X 149.64 X 149.92 | 22744 | 8.108 | 591.8 | 26.0 | |
| 3 | CC Pavement | M30 | 29/01/2018 | 05/02/2018 | 150.03 X 149.67 X 151.12 | 22455 | 8.273 | 551.6 | 24.6 | |

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Format No: CP/TP/01

# TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/02/2018

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-01-31-11** |
| **Customer** | : | Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Shettyhalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to CC roads 16th, 17th, 18th cross roads at Ravindra Nagara in Ward No. 13 in Shettyhalli Sub Division. |
| **Agency** | : | Sri.K.Jagadish, #3424, 6th cross, Gayathri Nagara, Bengaluru - 560021 |
| **Customer's Reference** | : | EE/DD/WO/191/17-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 31-01-2018 |
| **Sample ID No** | : | 2018-01-31-11 /07 |
| **Customer ID** | : | CC Pavement |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M30 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 05/02/2018 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CC Pavement | M30 | 29/01/2018 | 05/02/2018 | 150.22 X 151.12 X 151.65 | 22702 | 8.153 | 572.1 | 25.2 | 25.3 |
| 2 | CC Pavement | M30 | 29/01/2018 | 05/02/2018 | 150.00 X 150.07 X 149.44 | 22511 | 8.128 | 599.4 | 26.6 | |
| 3 | CC Pavement | M30 | 29/01/2018 | 05/02/2018 | 149.61 X 151.79 X 151.38 | 22709 | 8.430 | 547.6 | 24.1 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-01-31-11** **Date: 05/02/2018**

**Customer** : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

**Address** : Shettyhalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to CC roads 16th, 17th, 18th cross roads at Ravindra Nagara in Ward No. 13 in Shettyhalli Sub Division.

**Agency** : Sri.K.Jagadish, #3424, 6th cross, Gayathri Nagara, Bengaluru - 560021

**Customer's Reference** : EE/DD/WO/191/17-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 31-01-2018

**Sample ID No** : 2018-01-31-11 /09

**Customer ID** : CC Pavement

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M30 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 05/02/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CC Pavement | M30 | 29/01/2018 | 05/02/2018 | 149.11 X 151.18 X 149.77 | 22543 | 8.176 | 572.3 | 25.4 | 25.6 |
| 2 | CC Pavement | M30 | 29/01/2018 | 05/02/2018 | 151.53 X 149.75 X 150.92 | 22691 | 8.392 | 611.6 | 27.0 | |
| 3 | CC Pavement | M30 | 29/01/2018 | 05/02/2018 | 149.23 X 151.40 X 149.23 | 22593 | 8.358 | 550.6 | 24.4 | |

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## TEST RESULTS OF GRADATION FOR GSB
## (IS 2386:(Part 1) 1963 (RA2011)

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2018-01-19-09** **Date: 22-01-2018** |
| **Customer** | : | Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Shettyhalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to CC roads 16th, 17th, 18th cross roads at Ravindra Nagara in Ward No. 13 in Shettyhalli Sub Division. |
| **Agency** | : | Sri.K.Jagadish, #3424, 6th cross, Gayathri Nagara, Bengaluru - 560021 |
| **Customer Reference** | : | EE/DD/WO/191/17-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 19-01-2018 |
| **Sample ID No** | : | 2018-01-19-09/01 |
| **Type of Mix** | : | GSB (Granular Sub Base) |
| **Date of test** | : | 19-01-2018 |
| **Oven Dry Weight** | : | 10000 Grams |

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec. Limit Vide Table 400.1 MORTH Specification |
|---|---|---|---|---|---|
| 75 | 0 | 0 | 0 | 100 | 100 |
| 53 | 500 | 500 | 5.00 | 95.00 | 80-100 |
| 26.5 | 3500 | 4000 | 40.00 | 60.00 | 55-90 |
| 9.5 | 600 | 4600 | 46.00 | 54.00 | 35-65 |
| 4.75 | 1400 | 6000 | 60.00 | 40.00 | 25-55 |
| 2.36 | 300 | 6300 | 63.00 | 37.00 | 20-40 |
| 0.425 | 2700 | 9000 | 90.00 | 10.00 | 10-25 |
| 0.075 | 800 | 9800 | 98.00 | 2.00 | 0-5 |

**TESTS ON FILLER SCREEN MATERIALS**

| Sl no | Particulars | Test results | Spec.Limit Vide Table |
|---|---|---|---|
| 1 | Liquid Limit, % | 23.13% | Maximum 25 |
| 2 | Plasticity index, % | Non plastic | Maximum 6 |

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**Quality Manager**

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